

# MATERIAL SAFETY DATA SHEET

Serial No. 6452

Revision Date: Dec. 28. 2006

## (1. PRODUCT and COMPANY IDENTIFICATION)

Product name : **KIWA-JET SUBLIMATE F-RED**

Manufacture's name : KIWA CHEMICAL INDUSTRY CO., LTD.  
Address : 33, Minamitanabe-cho, Wakayama City, Japan  
Dyestuff Division, Sales Department  
Telephone No. for information: 81-73-423-3211 FAX No. : 81-73-425-9338  
Emergency Telephone No. : 81-73-435-1722 FAX No. : 81-73-435-1723

## (2. COMPOSITION / INFORMATION ON INGREDIENTS)

Substance or Preparation : Preparation  
Chemical name : Aqueous dispersion liquid of water insoluble dye  
Component and Contents : 1) Coloring matter 2) Polyhydric alcohol  
3) Surfactants 4) Water  
Hazardous component : None  
ENCS No. (JAPAN) : All components are registered (Trade secret)  
CAS No. : All components are registered (Trade secret)  
Chemical characteristics : None

## (3. HAZARDOUS IDENTIFICATION)

Classification of hazard in Japan : Not applicable to be hazardous  
Physical and Chemical hazard : Not dangerous under usual handling  
Environmental effects : Harmful to aquatic environment  
The most important hazard : Be careful to avoid inhalation, ingestion, contact with skin and eyes.  
When heat, well ventilation or local exhaust are necessary to avoid inhalation and contact with eyes of vapor or mist because it may occur irritation to throat or eyes. And put on protectors (Mask, Goggles, etc.).  
Specific hazard : None

## (4. FIRST AID MEASURES)

Eye contact : Wash eyes immediately with large amount of water for at least 15 minutes until no evidence of chemical remains. Get medical attention immediately.  
Skin contact : Remove contaminated clothing, shoes immediately. Wash with soap and large amounts of water until no evidence of chemical remains.  
Get medical attention, if you need.  
Inhalation : Remove from exposure immediately. Perform artificial respiration if you need and get medical attention.  
Ingestion : Induce vomiting if possible and wash the mouth well. Get medical attention immediately.

## (5. FIRE-FIGHTING MEASURES)

In case of fire : Even though there is no possibility of direct ignition unless contended water is vaporized as it is liquid form, in case of fire after being solidified, extinguish with fire extinguisher or plenty of water. Extinguish from windward and put protector and gas mask.  
Extinguishing media : Water, Foam, Carbon dioxide, Dry chemical

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**(6. ACCIDENTAL RELEASE MEASURES)**

- Personal precautions : Must put on protectors (Mask, Goggles, Gloves, Rubber-shoes, etc.) to avoid inhalation, ingestion, contact with skin and eyes.
- Environmental precautions: Must take suitable measure due to avoid discharge to environment such as river, sewer.
- Methods for cleaning up : Wipe off and collect spilled liquid with absorber such as cloths, sand, diatom earth.
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**(7. HANDLING and STORAGE)**

- Handling      Technical measure : Must put on protectors to avoid inhalation, ingestion, contact with skin and eyes.  
When heat, well ventilation or local exhaust are necessary to avoid inhalation or contact with eyes of vapor or mist and put on protectors (Mask, Goggles, etc.).
- Precaution for safety handling : Be careful not to break containers and keep separated from incompatible substances such as oxidizing agent, reducing agent, peroxide, strong acid, strong alkali, etc.
- Storage        Technical measure : Store in the sealed containers and keep in the safety place.
- Incompatible materials : Oxidizing agent, Reducing agent, Peroxide, Strong acid, Strong alkali, etc.
- Storage condition : Store in the sealed containers and keep in the place where temperature is between 0°C and 40°C.
- Container : Store with the container that we deliver.
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**(8. EXPOSURE CONTROL / PERSONAL PROTECTION)**

- Managing concentration : Not be established
- Permitted concentration : Polyhydric alcohol (Mist)=10mg/m<sup>3</sup> (TWA, 8hr)  
Other components are not established.  
[Japan Association on Industrial Health 1994 edition,  
ACGIH 1995-96 edition]
- Facility measures : Local exhaust system, Ventilation system
- Protector : Goggles, Gloves, Mask, Rubber-shoes
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**(9. PHYSICAL and CHEMICAL PROPERTIES)**

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|----------------|------------------|--------------|-----------------------------------|
| Physical state | : Liquid         | Density      | : approx. 1.10g/cc                |
| Appearance     | : Red            | Viscosity    | : 2~8cps (at 20°C)                |
| P H            | : 7.5~9.5        | Solubility   | : Mingle with water               |
| Boiling point  | : approx. 100°C  | Flammability | : Flammable after water vaporized |
| Flash point    | : Not applicable |              |                                   |
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**(10. STABILITY and REACTIVITY)**

- Spontaneous reactivity and Stability : Stable under normal conditions
- Harmful decomposed products : Generating carbon oxide, carbon dioxide, nitrogen oxides, sulfur oxides, etc. when burnt.
- Incompatible materials : Oxidizing agent, Reducing agent, Peroxide, Strong acid, Strong alkali, etc.
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## (11. TOXICOLOGICAL INFORMATION)

### Corrosion and Irritation

Dermal corrosion/irritation : No data about this product.

Eye corrosion/irritation : No data about this product.

Polyhydric alcohol : Irritating, Mild (Rabbit, 500mg/24hrs)

No data available about other components.

Sensitization(Skin allergy) : No data about this product.

Acute toxicity : No data about this product.

Coloring matter : LD50 > 10000 mg/kg (Rat, Oral)

Polyhydric alcohol : LD50 = 12600 mg/kg (Rat, Oral)

LD50 = 4090 mg/kg (Mouse, Oral)

LD50 = 7750 mg/kg (Guinea pig, Oral)

LD50 = 27000 mg/kg (Rabbit, Oral)

LD50 = 4420 mg/kg (Rat, Intraperitoneal)

LD50 = 8700 mg/kg (Mouse, Intraperitoneal)

LD50 = 5566 mg/kg (Rat, Intravenous)

LD50 = 4250 mg/kg (Mouse, Intravenous)

LC50 > 570 mg/m<sup>3</sup>/1hr (Rat, Inhalation)

No data available about other components.

Chronic toxicity : No data about this product.

Mutagenicity : No data about this product.

Carcinogenicity : No data about this product.

Coloring matter : Carcinogen status (OSHA : No , NTP : No , IARC : No)

Polyhydric alcohol : Carcinogen status (OSHA : No , NTP : No , IARC : No)

No data available about other components.

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## (12. ECOLOGICAL INFORMATION)

Biodegradation : No data about this product.

Coloring matter : We guess this coloring matter's biodegradation is low or none by data of the similar coloring matter.

Polyhydric alcohol : Biodegradability = 63% (by BOD<sub>5</sub>)

Surfactants : Biodegradation is low or none.

Bioaccumulation : No data about this product.

Polyhydric alcohol : Bioconcentration factor = 1

(Result : Concentrativity is none in fish and shellfishes.)

No data available about other components.

Ecological toxicity : No data about this product.

Polyhydric alcohol : LC50 = 54000 mg/L (Rainbow trout, 96hrs)

LC50 > 5000 mg/L (Goldfish, 24hrs)

EC50 > 10000 mg/L (Big-water flea, 24hrs)

No data available about other components.

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## (13. DISPOSAL CONSIDERATION)

Dispose in accordance with local, state and federal regulation and legislation.

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## (14. TRANSPORT INFORMATION)

UN Class/UN No. : Not applicable

See "(7. HANDLING and STORAGE)".

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**(15. REGULATORY INFORMATION, JAPAN)**

This product is not regulated by any of laws listed as follows:

Regulation of Explosives, Regulation of Gases, The Fire Service Act, Chemical Substance Control Act, The Industrial Safety and Health Law, Regulation of Poisons and Toxicants, The Safety of Vessel's Law, Pollutant Release and Transfer Register Law (PRTR Law).

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**(16. OTHER INFORMATION)**

This product does not release any of aromatic amines\* which are regulated in "German Consumer Goods Legislation, 76/769/EEC(31/2002/EC), Eco-Tex Standard 100, Japan Environment Association Eco-mark, China law of textile" by reductive cleavage of azo-bonds, and does not contain carcinogenic dyestuffs and allergenic dyestuffs which are regulated in "Eco-Tex Standard 100, EU Eco Label, Japan Environment Association Eco-mark".

\* Prohibited aromatic amines : 22 aromatic amines which are regulated in 76/769/EEC(31/2002/EC) and 2,4-Xylidine, 2,6-Xylidine.  
(Regulated aromatic amines are different with each regulations)

Read well the section of (4. FIRST AID MEASURES), (7. HANDLING and STORAGE), (8. EXPOSURE CONTROL / PERSONAL PROTECTION), etc. and be careful for handling.

We made this Material Safety Data Sheet for textile dyeing.

Please ask further information for the restrictions and regulations of the other usage.

The supplier makes no warranties, either express or implied, concerning of this product.

User assumes all risks resulting from its use.

(Literature)

1) ACGIH = American Conference of Governmental Industrial Hygienists Inc.

2) RTECS = Registry of Toxic Effects of Chemical Substances

3) NIOSH = National Institute for Occupational Safety and Health

4) (Corporate juridical person)

JAPAN CHEMICAL INDUSTRY ECOLOGY-TOXICOLOGY & INFORMATION CENTER

"BIODEGRADATION AND BIOACCUMULATION, DATA OF EXISTING CHEMICALS BASED ON THE CSCL JAPAN(1992)"

5) STN ON-LINE information

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